

## The College at Brockport: State University of New York Digital Commons @Brockport

---

### College Senate Resolutions

---

4-17-2017

# Major Changes to the Medical Technology major with the Clinical Year at WCA Hospital

The College at Brockport, College Senate

Follow this and additional works at: [https://digitalcommons.brockport.edu/senate\\_resolutions](https://digitalcommons.brockport.edu/senate_resolutions)



Part of the [Higher Education Commons](#)

---

### Repository Citation

The College at Brockport, College Senate, "Major Changes to the Medical Technology major with the Clinical Year at WCA Hospital" (2017). *College Senate Resolutions*. 1259.

[https://digitalcommons.brockport.edu/senate\\_resolutions/1259](https://digitalcommons.brockport.edu/senate_resolutions/1259)

This Resolution is brought to you for free and open access by Digital Commons @Brockport. It has been accepted for inclusion in College Senate Resolutions by an authorized administrator of Digital Commons @Brockport. For more information, please contact [kmyers@brockport.edu](mailto:kmyers@brockport.edu), [digitalcommons@brockport.edu](mailto:digitalcommons@brockport.edu).

Supersedes Res #: \_\_\_\_\_

TO: Dr. Heidi Macpherson, College President

FROM: The College Senate: **04/17/17**

RE: **→** I. Formal Resolution (*Act of Determination*)  
II. Recommendation (*Urging the Fitness of*)  
III. Other, For Your Information (*Notice, Request, Report, etc.*)



SUBJ: **Major Changes to the Medical Technology major with the Clinical Year at WCA Hospital** (#42\_16-17UC)

Signed: [Signature] Date: 08/05/2017  
(Sharon Lubkemann Allen, 2016-17 College Senate President)

Please fill out the bottom portion and follow the distribution instructions at the end of this page.

TO: Dr. Sharon Lubkemann Allen, College Senate President

FROM: Dr. Heidi Macpherson, College President

RE: **→** I. Decision and Action Taken on Formal Resolution (circle choice)

a. Accepted - Implementation Effective Date\*\*: Fall 2017  
\*\*Implementation of resolution requires final approval from SUNY- State Education Department. YES ☒ NO ☐

Signed: [Signature] Date: 8-1-17  
(Dr. Eileen Daniel, Vice Provost, The College at Brockport)

b. Deferred for discussion with the Faculty Senate on \_\_\_\_/\_\_\_\_/\_\_\_\_  
c. Unacceptable for the reasons contained in the attached explanation

II, III. Response to Recommendation or Other/FYI

a. Received and acknowledged \_\_\_\_/\_\_\_\_/\_\_\_\_

b. Comment:

Signed: [Signature] Date: 8/14/17  
(Dr. Heidi Macpherson, President, The College at Brockport)

**DISTRIBUTION:**

Upon approval, the College President will forward copies of resolutions to his/her staff who will, in turn, forward copies to their staff. The College Senate Office will post resolutions to the College Senate Web at <http://www.brockport.edu/collegesenate/resolutions>.

**COLLEGE SENATE OFFICE  
RESOLUTION PROPOSAL COVER PAGE**

**DEADLINE FOR SUBMISSIONS: February 28**

Incomplete proposals will be returned and proposals received after the deadline may not be reviewed until next semester.

<b>Routing Number</b> <i>Routing # assigned by Senate Office 2016-2017</i>	<b>#42_16-17UC</b> <i>Use routing number and title in all reference to this proposal.</i>
<b>This Proposal Replaces Resolution</b>	

**INSTRUCTIONS**

- Use committee guidelines available at [brockport.edu/collegesenate/proposal.html](http://brockport.edu/collegesenate/proposal.html).
  - Prepare ONE complete document in **Word format**: include this proposal cover page, proposal, attachments and support letters from your department chair and dean if applicable.
  - **Locate the Resolution # and date this proposal will replace at our "Approved Resolutions" page on our Web site.**
  - Email completed proposal to [senate@brockport.edu](mailto:senate@brockport.edu). (General Education Proposals and questions go to [dlamphron@brockport.edu](mailto:dlamphron@brockport.edu) in the Vice Provost's Office first.)
  - Make revisions on the paperwork emailed to you from the Senate office that shows the assigned routing number on top. Submit updated document to [senate@brockport.edu](mailto:senate@brockport.edu).
  - Questions? Call the Senate office at 395-2586 or the appropriate committee chairperson.
1. **PROPOSAL TITLE:** Please be somewhat descriptive, ie. *Use a course number and/or title, indicate if for GED code, etc.*

Major Changes to the Medical Technology major with the Clinical Year at WCA Hospital

**2. BRIEF DESCRIPTION OF PROPOSAL:**

We want to ensure that the Medical Technology major achieves Licensure Qualifying status. Based on discussions with SED, several changes have been made to the program in preparation for students completing their Clinical Year at WCA Hospital.

1. To meet the Analytical Chemistry or Biochemistry with a lab component (the State requirements are appended at the end of this proposal), Organic Chemistry II (CHM306) alone is no longer sufficient to meet the State requirements. We will require Quantitative Chemical Analysis (CHM313) by default. Biochemistry and Biochemistry Lab (BIO467 and BIO470, respectively) will be recommended by advisement only.
2. When reviewing proposals that seek licensure qualifying status, SED will examine the progression criterion for the Clinical Year. Based on our discussions with the Clinical Affiliates and the credentials of students that they have admitted in the last five years, we are proposing an overall GPA of at least 2.75 as the progression criterion.
3. In consultation with our Clinical affiliates, we have implemented an Immunology Laboratory (BIO430) and added this as a required course – although some Immunology lab techniques are part of the Clinical Year curriculum, we anticipate that this may become a requirement for Licensure in the near future.

3. **WILL ADDITIONAL RESOURCES AFFECTING BUDGET BE NEEDED?** ☒ **NO** ☐ **YES** **EXPLAIN YES**
4. **DESCRIBE ANY DATA RELATED TO STUDENT LEARNING OUTCOMES ASSESSMENT USED AS PART OF THE RATIONALE FOR THE REQUESTED SENATE ACTION.**

5. **HOW WILL THIS AFFECT TRANSFER STUDENTS (ie: Transfer Paths)**

<http://www.suny.edu/attend/get-started/transfer-students/suny-transfer-paths/suny-transfer-paths-all-2015/>

No Affect

6. **ANTICIPATED EFFECTIVE DATE:**

Fall 2017

7. **SUBMISSION & REVISION DATES:** PLEASE DATE ALL REVISED DOCUMENTS TO AVOID CONFUSION.

<i>First Submission</i>	<i>Updated on</i>	<i>Updated on</i>	<i>Updated on</i>

8. **SUBMITTED BY: (contact person)**

<i>Name</i>	<i>Department</i>	<i>Phone</i>	<i>Email</i>
<i>Craig Lending</i>	<i>Biology</i>	<i>5755</i>	<i>clending@brockport.edu</i>

9. **COMMITTEES: (Senate office use only)**

Standing Committee	Forwarded To	Dates Forwarded
<input type="checkbox"/> Executive Committee	Standing Committee	02/28/17
<input type="checkbox"/> Enrollment Planning & Policies	Executive Committee	03/06/17
<input type="checkbox"/> Faculty & Professional Staff Policies	Senate	03/20/17 04/03/17
<input type="checkbox"/> General Education & Curriculum Policies	SenatePresident/GED'sViceProvost	08/05/17
<input type="checkbox"/> Graduate Curriculum & Policies	College President	08/14/17
<input type="checkbox"/> Student Policies	OTHER	
<input type="checkbox"/> Undergraduate Curriculum & Policies	REJECTED -WITHDRAWN	

NOTES:

Resolution # 28



## Major in Medical Technology Current Requirements

(60 or 61 credits)	Credits
BIO 201 Biology I	4
BIO 202 Biology II	4
BIO 301 Cell Biology	4
BIO 302 Genetics	4
BIO 321 Anatomy and Physiology I	4
BIO 322 Anatomy and Physiology II	4
BIO 323 Microbiology	4
<b>OR</b>	
BIO423 General Microbiology	3
BIO 414 Immunology	3
BIO 481.62 Medical Technology Internship	15
BIO 482.62 Medical Technology Internship	15
<b>Minimum Total:</b>	<b>60 or 61</b>
<b>Chemistry requirements:</b>	
CHM 205-206 College Chemistry I & II	8
CHM 305 Organic Chemistry I	4
CHM 306 Organic II <b>or</b> CHM 313 or Quant. Chemical Analysis	4
<b>Math requirements:</b>	
MTH243 Elementary Statistics	3
<b>Physics requirements:</b>	
PHS 205-210 Intro to Physics I & II w/lab	8
<b>OR</b>	
PHS 235-240 Physics I & II w/lab	8

- \* PHS 205-210 prereq. MTH122, Precalculus
- \* PHS 235-240 coreq. MTH201 and MTH202, Calculus I and II

## Major in Medical Technology Proposed Requirements

(61 or 62 credits)	Credits
BIO 201 Biology I	4
BIO 202 Biology II	4
BIO 301 Cellular Biochemistry	4
BIO 302 Genetics	4
BIO 321 Anatomy and Physiology I	4
BIO 322 Anatomy and Physiology II	4
BIO 323 Microbiology	4
<b>OR</b>	
BIO 423 General Microbiology	3
BIO 414 Immunology	3
BIO 430 Immunology Lab	1
BIO 481.62 Medical Technology Internship	15
BIO 482.62 Medical Technology Internship	15
<b>Minimum Total:</b>	<b>61 or 62</b>
<b>Chemistry requirements:</b>	
CHM 205-206 College Chemistry I & II	8
CHM 305 Organic Chemistry I	4
CHM 313 Quantitative Chemical Analysis <b>or</b> *CHM467 & CHM470 Biochemistry w\lab	4
<b>Math requirements:</b>	
MTH243 Elementary Statistics	3
<b>Physics requirements:</b>	
PHS 205-210 Intro to Physics I & II w/lab	8
<b>OR</b>	
PHS 235-240 Physics I & II w/lab	8

- \* Note that CHM467 and 470 have CHM306, Organic Chemistry II, as a prerequisite

6. The changes above reflect our Department's desire to ensure that students who complete their Medical Technology degree through SUNY Brockport have taken the required courses in preparation for completing their Clinical Year at WCA Hospital and fulfilling the New York State requirements for Medical Technology licensure. The State Board requires either Analytical Chemistry or Biochemistry with lab. Organic Chemistry II (CHM306) alone is no longer sufficient to meet the State requirements. We will require Quantitative Chemical Analysis (CHM313) by default, and Biochemistry will be recommended as an alternative pathway. Students will be advised that the Biochemistry pathway will require both CHM306, Organic Chemistry II **AND** both CHM467 (Biochemistry lecture) and CHM470 (Biochemistry laboratory). Cellular Biochemistry (BIO301) **DOES NOT** fulfil the State requirement for licensure.

When reviewing proposals that seek licensure qualifying status, SED will examine the progression criterion for the Clinical Year. In the past we did not specify a GPA requirement as the progression criterion. If a licensure qualifying program were not to stipulate a progression criterion, SED will expect any and all students can reasonably expect admission to the Clinical Year. However, some of our Clinical Affiliates now have minimum GPA requirements for acceptance to the Clinical year. This is the reason why we are proposing a minimum GPA for applying for the Clinical Year. Based on our discussions with the Clinical Affiliates and the credentials of students that they have admitted in the last five years, we are proposing an overall GPA of at least 2.75 as the progression criterion.

The catalog description of the program and all advisement-related documents will state this progression criterion explicitly and prominently. Students not meeting this criterion will also have a fallback option. They can change their major to Biology; the courses required for the Biology and Medical Technology majors in the first three years are nearly identical, with one exception, which has an easy remedy. After matriculating into the Medical Technology major, if a student decides to switch to a Biology major, he/she will have the option to finish the extant Biology major by completing the following Biology courses.

- **One BIO 400-level course (3 credits)**
- **Two BIO 400-level laboratory courses (two at 3 credits each = 6 credits)**
- **BIO 498 Senior Seminar (1 credit)**

In order to minimize the time required for students NOT meeting the progression criteria, students will be advised to take General Microbiology, BIO423, instead of Microbiology, BIO323. This allows them to then count the General Microbiology as a 400-level elective, as well as a 400-level laboratory course. Because Medical Technology students must take Anatomy and Physiology I and II (BIO321/322) they cannot apply BIO323 (Microbiology) to the Biology major because only two elective courses can be included (in addition to Cellular Biochemistry and Genetics, BIO301 and 302, respectively). The curriculum for the Biology major is appended. Even after completing the first three years as a Medical Technology major, the transition to a Biology major will allow students who do not get accepted into a Clinical Program to complete their Biology degree in 4 years. They can then reapply to a Clinical Program, or also apply to an Advanced Certificate Program, such as the recently established program at the University of Rochester Medical Center.

7. There are no new courses involved in this proposal. BIO430, Immunology Lab, is a course that the Department began teaching Spring 2017.

8. There are no additional staffing needs required by this proposal.

---

**9. Letter of Support – Department Chair**

---



The College at  
**BROCKPORT**  
STATE UNIVERSITY OF NEW YORK

**350 New Campus Drive  
Brockport, New York 14420**

February 11, 2017

To the Committee,

The Department of Biology is requesting College Senate Approval for new course requirements for our current Medical Technology major. As stated, we currently have an affiliation with WCA Hospital which allows our Medical Technology majors to complete the required 1-year clinical internship in order to receive the B.S. Medical Technology degree. In order to fully meet state guidelines for licensure qualifying status of our program, we have changed the Medical Technology major in three ways. The first is the requirement of CHM 313 Quantitative Chemical Analysis. The second is the addition of an Immunology Lab component. The third is through a GPA minimum and progression criterion within the Medical Technology major. The addition of these three criteria will better allow our program to acquire state licensure qualifying status. Therefore, I fully support this proposal.

Sincerely,

Rey Antonio L. Sia, Ph.D.  
Department Chair  
Associate Professor  
Dept. of Biology  
[rsia@brockport.edu](mailto:rsia@brockport.edu)

---

**10. Letter of Support – Chair Chemistry**



The College at  
**BROCKPORT**  
STATE UNIVERSITY OF NEW YORK  
Department of Chemistry and Biochemistry  
**Department of Chemistry and Biochemistry**

February 21, 2017

Craig--

The Department of Chemistry and Biochemistry supports the changes in the Medical Technology degree program.

Sincerely yours,

*Margaret E Logan*

Margaret E. Logan, PhD  
Associate Professor and Chair  
Department of Chemistry and Biochemistry  
585-395-5594  
[mlogan@brockport.edu](mailto:mlogan@brockport.edu)





The College at  
**BROCKPORT**  
STATE UNIVERSITY OF NEW YORK

**Dean, School of Science and Mathematics**

21 February 2017

Dr. Sharon Allen, President  
College Senate

Dear Dr. Allen,

This letter is regarding the curriculum revision proposal that the Department of Biology is submitting to the College Senate pertaining to its Medical Technology major.

Completing a clinical year at an accredited hospital or laboratory is one of the requirements of the Medical Technology major. Presently, we have agreements with two hospitals—Rochester General Hospital (RGH) and WCA Hospital—that allow our students to complete their clinical year. Between the two, an overwhelming number of our students prefers the former. Recently, RGH informed us that it will only admit students to the clinical year from institutions that have the licensure qualifying status with the State Education Department (SED). We do not yet have this status. The revisions elaborated in the proposal that the Department of Biology is submitting to the Senate for review and approval are for securing the licensure qualifying status.

Previously, the department sought and received approval from the College Senate to revise the Medical Technology major for this very purpose. SUNY approved that proposal and forwarded it to SED. For well over a year, I have been working with our colleagues at SUNY and SED staff to secure licensure qualifying status, but without success, owing to the language that we had in the previous proposal related to admission to the clinical year, including a lack of specificity about progression criteria for acceptance to the clinical year. The current proposal includes a progression criterion, among other things. I believe that the revisions that the department is proposing should alleviate concerns of SED.

Accordingly, I fully support the revisions.

Sincerely,

Jose Maliekal  
Dean

12. Letter of Support -- Program Director, WCA Hospital



**UPMC Chautauqua WCA**

207 Foote Avenue  
PO Box 840  
Jamestown, NY 14702-0840  
716-487-0141

[UPMCChautauquaWCA.org](http://UPMCChautauquaWCA.org)

February 17, 2017

The College at Brockport, SUNY  
350 New Campus Drive  
Brockport, NY 14420

To the Committee:

This letter is in support of the proposed changes in the Biology major for those students desiring to enter the Medical Technology major at The College at Brockport and as required by The College at Brockport's desire to become a license-qualified institution as determined by the NYSED (New York State Education Department). These proposed changes continue support a quality program at The College at Brockport and provide the necessary preparations for those students who attend the clinical program year at the UPMC Chautauqua WCA Medical Laboratory Science Program.

I look forward to the continued cooperation between our institutions.

Sincerely,

A handwritten signature in black ink, reading "Michele G. Harms". The signature is fluid and cursive.

Michele G. Harms, MS, MLS(ASCP)<sup>CM</sup>  
Program Director, Medical Laboratory Science Program  
716-664-8484  
[michele.harms@wcahospital.org](mailto:michele.harms@wcahospital.org)  
[www.wcahospital.org/mlsprogram](http://www.wcahospital.org/mlsprogram)

### **13. RECENT STUDENTS ACCEPTED FOR MEDICAL TECHNOLOGY-THE COLLEGE AT BROCKPORT**

#### **GPA AT THE TIME OF ACCEPTANCE**

<b>FALL 2016</b>	<b>FALL 2015</b>	<b>FALL 2014</b>
3.71	4.00	3.12
3.53	3.36	3.79
4.00	3.91	3.42
3.70	3.80	3.93
3.90	3.00	3.21
3.32	3.86	3.50
3.42		3.28
3.82		3.25
3.27		3.80

<b>FALL 2013</b>	<b>FALL 2012</b>
3.20	3.00
4.00	2.70
4.00	3.10
3.35	4.00
3.88	3.80
3.48	2.90
2.89	3.50

## 14. Major in Biology

### Current Requirements

BIO 201 Biology I	4
BIO 202 Biology II	4
BIO 301 Cellular Biochemistry	4
BIO 302 Genetics	4
BIO 300/400 level electives (8 credit max for 300-level electives, 6-8 credits of 400-level labs)	20
BIO498 Senior Seminar	1
<b>BIO Component Requirements</b>	<b>37</b>
<b>Chemistry requirements:</b>	
CHM 205-206 College Chemistry I & II	8
CHM 305 Organic Chemistry I	4
CHM 306 or CHM 313 (Organic II or Quantitative Chemical Analysis)	4
<b>Math requirements:</b>	
MTH 201 Calculus I or MTH 243 Statistics or ENV 437 Biostatistics	3-4
<b>Physics requirements:</b>	
PHS 205-210 Intro to Physics I & II w/lab	8
OR	
PHS 235-240 Physics I & II w/lab	8
<b>Total Major Requirements</b>	<b>64-65</b>